

Upper level high pressure dominated the Southern Rockies and Southern Plains states during much of August. This pattern kept the most persistent plume of monsoonal moisture to the west and north of Colorado, resulting in above normal temperatures and below normal precipitation across portions of Metro Denver. The driest area was from roughly downtown through DIA, while the southern suburbs received near or slightly above normal precipitation. A few upper level disturbances and associated cold fronts which moved across the Northern and Central Rockies brought short periods of cooler and wetter weather to the area. Heavier rains occurred in northern Colorado.

TEMPERATURES:

The average temperature at Denver International Airport for August 2023 was $74.2^{\circ}F$, which is 1.3 degrees above the normal of $72.9^{\circ}F$. During the month, 15 days had temperatures that equaled or exceeded 90 degrees. The warmest temperature of the month was 99 degrees on the 16^{th} and 21^{st} .

TEN WARMEST AUGUST AVERAGE TEMPERATURES IN DENVER WEATHER HISTORY SINCE 1872:

```
76.8°F - 1937
76.1°F - 2022
75.4°F - 2021, 2019, 2007
75.3°F - 1995
75.0°F - 2012, 1994
```

 $77.0^{\circ}F - 2020, 2011$

TEN COLDEST AUGUST AVERAGE TEMPERATURES IN DENVER WEATHER HISTORY SINCE 1872:

```
66.5°F - 1915
66.6°F - 1927
67.7°F - 1920
67.8°F - 1884
68.0°F - 1888
68.1°F - 1968
68.2°F - 2004, 1967
68.4°F - 1992, 1917
```

RECORDS:

Record low of 49° on August 14th tied the old record of 49° set in 1976.

Record high of 99° on August 21st broke old record of 97° set in 2007 and previous years.

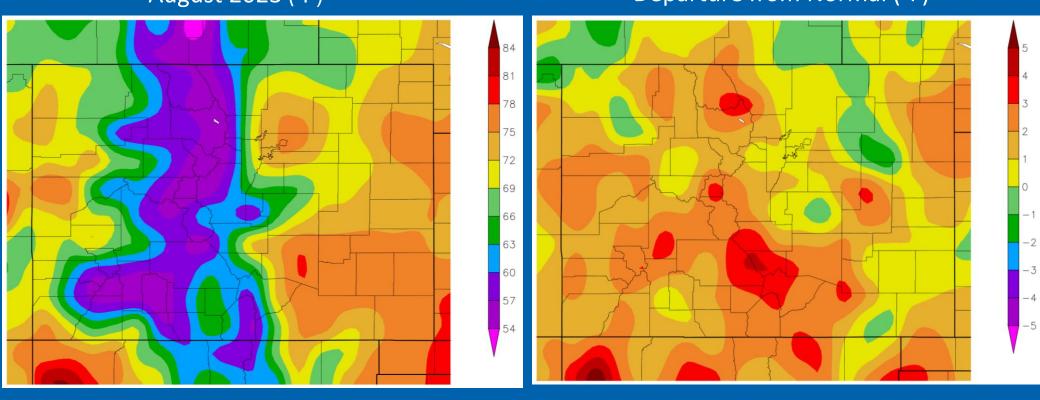
Record high minimum of 69° on August 18th broke old record of 67° in 2020 and previous years.

Record high minimum of 72° on August 21st broke old record of 67° set in 1946 and previous years.

Record high minimum of 73° on August 22nd broke old record of 69° set in 1960.

Average Temperature August 2023 (°F)

August 2023 Temperature Departure from Normal (°F)



Graphics generated by HPRCC using provisional data

PRECIPITATION:

Denver received 0.93 inches of precipitation in August 2023, which was 0.65 inches below the normal of 1.58 inches. There were only seven days with measurable precipitation during the month, with the highest daily amount of 0.60 inches on the 3^{rd} . The highest 24 hour amount was 0.65 inches from the 2^{rd} into the 3^{rd} .

TEN WETTEST AUGUST PRECIPITATION TOTALS IN DENVER WEATHER HISTORY SINCE 1872: INCHES

5.85 - 1979

4.47 - 1951

4.03 - 2008

3.87 - 1923

3.69 - 1991

3.52 - 1997

3.49 - 1921

3.37 - 1999

3.22 - 1936

3.20 - 1984

TEN DRIEST AUGUST PRECIPITATION TOTALS IN DENVER WEATHER HISTORY SINCE

1872: INCHES

0.02 - 1924

0.05 - 1917, 1900

0.06 - 1960

0.11 - 2012

0.16 - 1974

0.19 - 1948

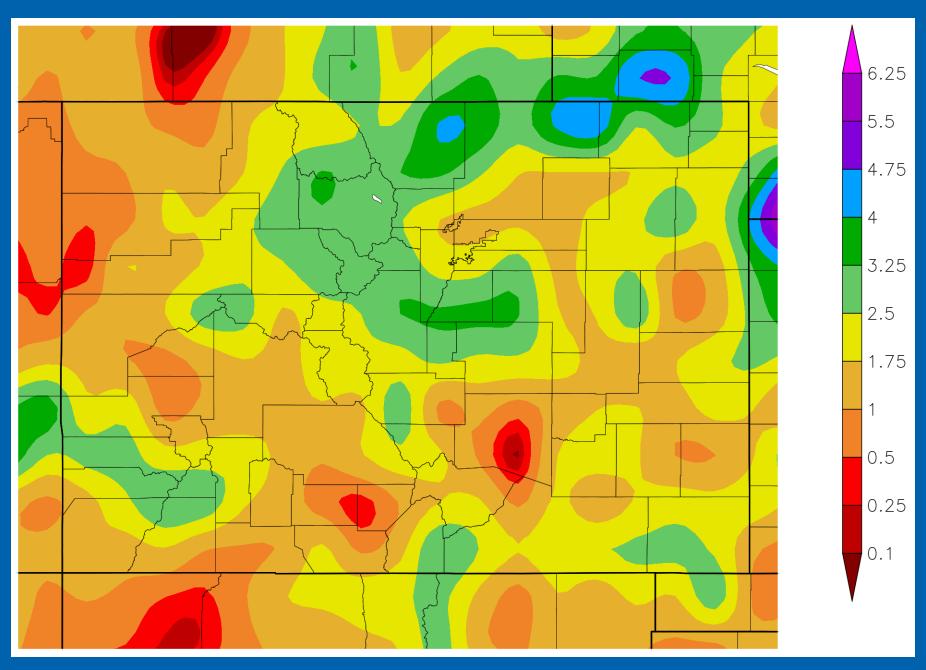
0.22 - 2016

0.23 - 1907

0.25 - 1959

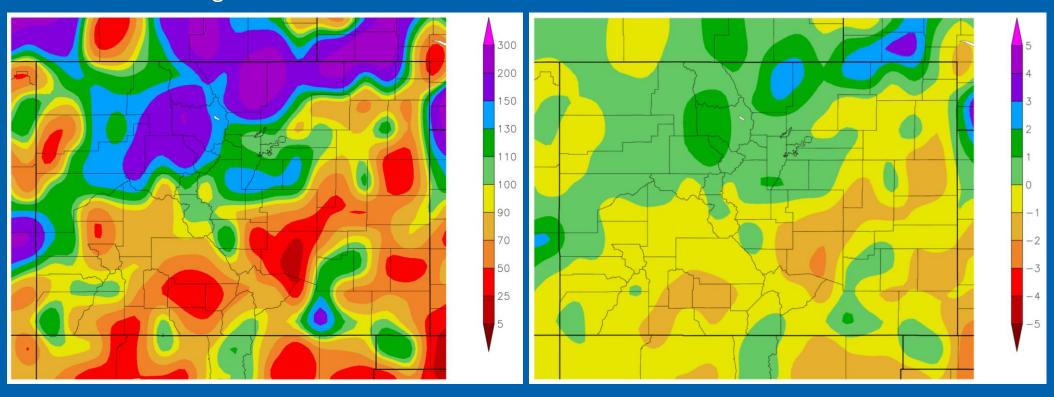
There were 13 days in which thunder was observed at Denver International Airport and one day with dense fog (visibility of one quarter mile or less) during the month. A peak wind gust of 51 mph from the northeast occurred on the 28th due to a passing thunderstorm.

August 2023 Precipitation (Inches)



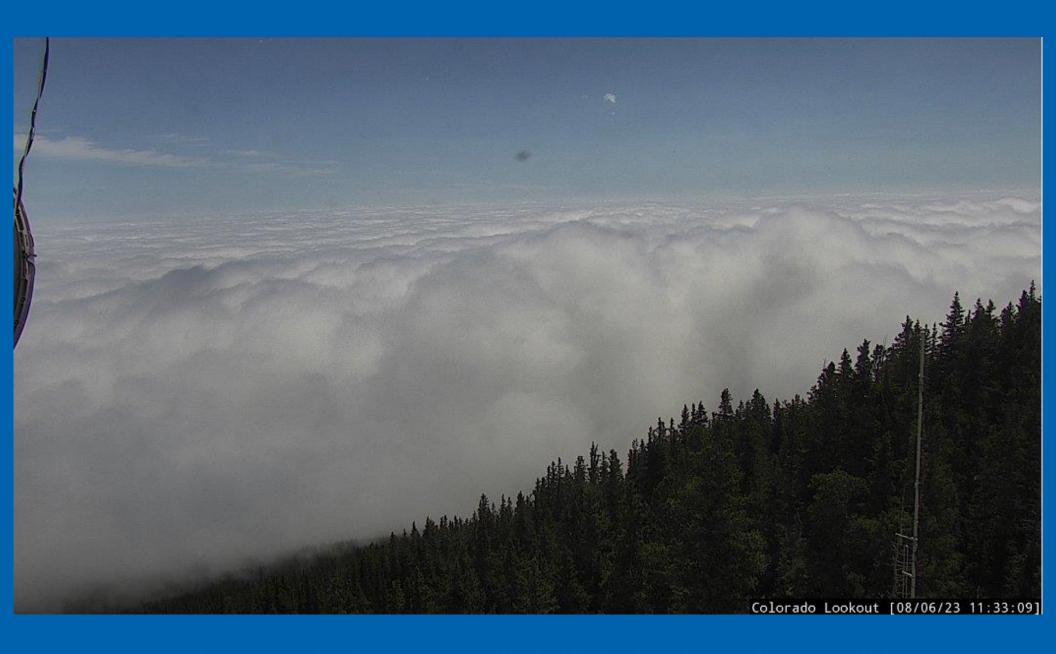
Percent of Normal Precipitation (%)
August 2023

Departure from Normal Precipitation August 2023 (Inches)

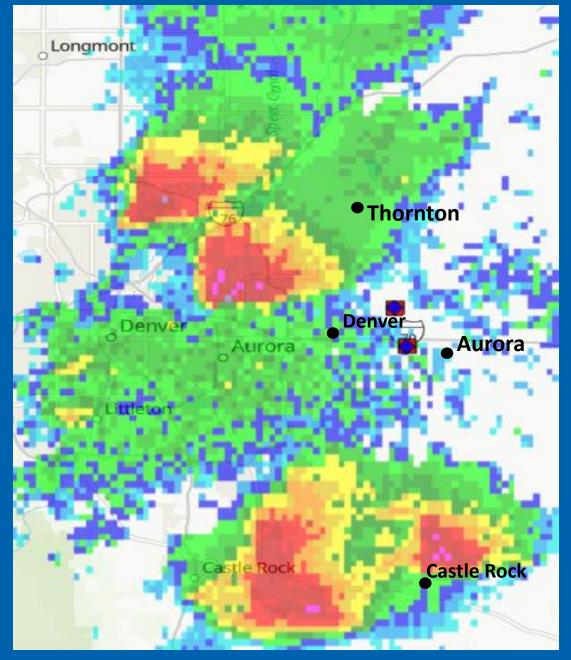


Graphics generated by HPRCC using provisional data

While areas from downtown Denver to near DIA saw below normal precipitation, rainfall amounts averaged above normal over the northern sections of Colorado. This area was closer to the deeper monsoonal moisture plume on a more frequent basis during the month.



A camera from Lookout Mountain shows stratus clouds blanketing the northeastern plains of Colorado on the morning of August 6th. The low clouds, combined with light precipitation, resulted in cool temperatures that day. The temperature at Denver International Airport only managed to reached 70 degrees, which was the coolest day of the month.



The active weather pattern from July continued into early August. Severe thunderstorms developed on the afternoon of August 3rd, producing large hail in portions of metro Denver east of I-25. A 66 mph thunderstorm wind gust was reported at Bennett.

Metro Denver Severe Weather Reports August 3rd, 2023		
Time	Location	Severe Report
3:29 PM	4 SW Todd Creek	1.25" diameter hail
3:33 PM	Thornton	1.0" diameter hail
3:41 PM	6 WSW Denver Intl Airpo	1.0" diameter hail
3:45 PM	Thornton	1.0" diameter hail
4:28 PM	Bennett	66 mph thunderstorm wind gust

Most storms during the rest of the month produced light to moderate rainfall, gusty winds, but less pronounced severe weather.

KFTG Radar 3:40 PM August 3rd, 2023